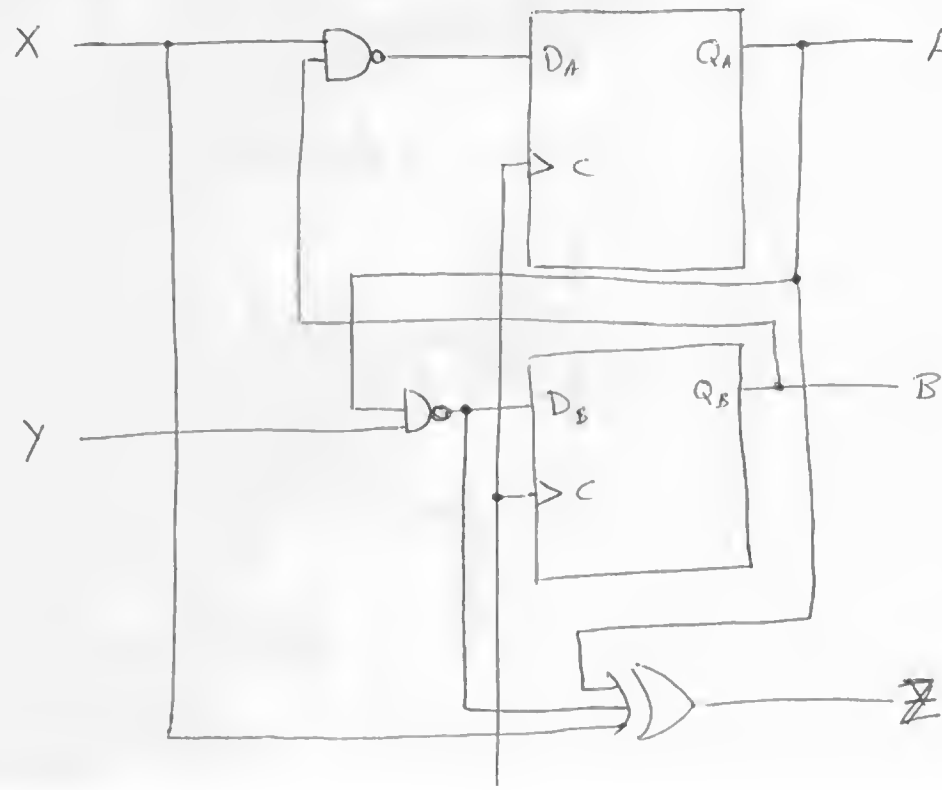


## Quiz #4

1. Draw the (a) state table and (b) state diagram of the circuit shown below:



Quiz #4

$$D_A = \overline{X}B$$

$$D_B = \overline{Y}A$$

$$Z = A \oplus X \oplus (\overline{Y}A) = A \oplus X \oplus D_B$$

P.S.		IN		N.S.		OUT
A	B	X	Y	A	B	Z
0	0	0	0	1	1	1
0	0	0	1	1	1	1
0	0	1	0	1	1	0
0	0	1	1	1	1	0
0	1	0	0	1	1	1
0	1	0	1	1	1	1
0	1	1	0	0	1	0
0	1	1	1	0	1	0
1	0	0	0	1	1	0
1	0	0	1	1	0	1
1	0	1	0	1	1	1
1	0	1	1	1	0	0
1	1	0	0	1	1	0
1	1	0	1	1	0	1
1	1	1	0	0	1	1
1	1	1	1	0	0	0

$xy/z$

